

(Unofficial Translation)

Application for Sale of Electricity and System Interconnection

(For Generators with Net Output under 10 MW)

The application for sale of electricity and system interconnection for power producers with a generating facility with net output under 10 MW to be interconnected with the Provincial Electricity Authority (PEA)/Metropolitan Electricity Authority (MEA) system.

Remarks: Power Producers with generators less than 30 kW are not required to fill in the shaded areas.

Section 1: Applicant Information

Name: _____ Age: _____ Nationality: _____ Ethnic: _____

Mailing Address: _____

Province: _____ Post Code: _____ Telephone: _____

Submitting the application in the capacity as _____ Business: _____ or

Company: _____

Headquarters Location:

Telephone: _____ Fax: _____

Facility Location:

Telephone: _____ Fax: _____

Section 2: Generator Qualifications

Is Generator powered by renewable energy sources? Yes No

Type of renewable energy: Solar Wind Hydro

Biogas Geothermal

Waste Others: _____

Other energy source: Natural Gas Oil Coal Others: _____

Will there be excess power to be exported to PEA/MEA? Yes No

Total System Capacity: _____ kW Site Load: _____ kW (Typical)

Maximum Export: _____ kW

Section 3: Generator Technical Information

3.1 Type and Number of Generators:

- Synchronous Number of unit(s): _____
- Induction Number of unit(s): _____
- DC Generator or Solar with Inverter
- Inverter (Self-Commutated) Number of unit(s): _____
- Inverter (Line-Commutated) Number of unit(s): _____

3.2 Detail of Generator:

Generator Manufacturer, Model Name & Number: _____

Output Power Rating in kW: _____

Inverter Manufacturer, Model Name & Number (if used): _____

Rating in kW: _____

If you have more than one Generator, please provide details of all Generators in attachments to this Application.

3.3 Characteristics of Generator:

(for Synchronous and Induction Generators)

Direct Axis Synchronous Reactance, X_d : _____ P.U. Negative Sequence Reactance: _____ P.U.

Direct Axis Transient Reactance, X'_d : _____ P.U. Zero Sequence Reactance: _____ P.U.

Direct Axis Sub-transient Reactance, X''_d : _____ P.U. kVA Base: _____

Section 4: Interconnecting Equipment Technical Data

Will an interposing transformer be used between the generator and the point of interconnection?

Yes No

Transformer Data: (Enclose a copy of the transformer Nameplate.)

Size: _____ kVA Primary Voltage: _____ V Number of Tabs: _____

Delta Wye-grounded

Secondary Voltage: _____ V Number of Tabs: _____

Delta Wye-grounded

Transformer Impedance: _____ % at Tab No. _____ on _____ kVA Base

_____ % at Tab No. _____ on _____ kVA Base

_____ % at Tab No. _____ on _____ kVA Base

_____ % at Tab No. _____ on _____ kVA Base

_____ % at Tab No. _____ on _____ kVA Base

Transformer Fuse Data:

(Enclose a copy of Minimum Melting Point & Total Clearing Time -- Current Characteristics.)

Manufacturer: _____ Type: _____ Size: _____ A Speed: _____ V

Interconnecting Circuit Breaker: (Enclose a copy of Circuit Breaker Manual.)

Manufacturer: _____ Type: _____ Load Rating: _____ A Interrupting Rating: _____ kA
Rated Voltage: _____ V

Circuit Breaker Protective Relays: (Enclose a copy of Time-Overcurrent Coordination Curves.)

Manufacturer: _____ Type: _____ Style/Catalog No.: _____
Manufacturer: _____ Type: _____ Style/Catalog No.: _____
Manufacturer: _____ Type: _____ Style/Catalog No.: _____
Manufacturer: _____ Type: _____ Style/Catalog No.: _____
Manufacturer: _____ Type: _____ Style/Catalog No.: _____

Current Transformer Data:

(Enclose a copy of Manufacturer's Excitation Curve & CT Ratio Correction.)

Manufacturer: _____ Type: Measuring Protection Size: _____ VA
Accuracy Class: _____ Proposed Ratio Connection: _____
Manufacturer: _____ Type: Measuring Protection Size: _____ VA
Accuracy Class: _____ Proposed Ratio Connection: _____

Generator Disconnect Switch:

A disconnect device, accessible to PEA/MEA

Manufacturer: _____ Type: _____ Catalog No.: _____ Rated Volts: _____ V
Rated Amps: _____ A Single or 3 Phase: _____ Mounting Location: _____

Section 5: General Technical Information

The following documents are provided herewith:

- A copy of site Single Line Diagram showing configuration and interconnection of all equipment, current circuits and voltage, and protection and control schemes.
- A copy of documentation giving details of the operation of the protection and control schemes.
- A copy of the list of electrical equipment used within the facility premise.
- Copies of schematic layouts of electrical equipment installations within the facility premise (only for existing customers).

Section 6: Installation Details

Generating System will be installed by: Owner Legal licensee
Installing Electrician: _____ Firm: _____ License No.: _____
Address: _____
Telephone: _____
Installation Date: _____ Interconnection Date: _____

Certification of Installation and Standards of Equipment

Engineer: _____
Type of Professional Permit: _____ Permit No.: _____
Date of Issue: _____

Section 7: Generator/Equipment Certification

Inverter-based generating systems must be compliant with IEEE 929, Underwriters Lab UL 1741, IEC 1727, Japanese or other standards, or equivalent Thai standards. Synchronous and induction generating systems must be compliant with the *Regulations for Synchronization of Generators with Net Output under 10 MW to the Distribution Utility (PEA/MEA) System*.

By signing below, the Applicant accepts the aforementioned requirements.

Signature (Applicant): _____ Date: _____

Section 8: Documents/Information to Be Provided together with the Application for Sale of Electricity of a VSPP

- 8.1 Preliminary data of the power generating process characteristics, the Heat Balance Diagram, together with the volume of temperature and steam pressure used for the generating process and the utilization characteristics of heat energy derived from the cogeneration system.
(Power producers using solar, wind and hydro energy are not required to submit this document.)
- 8.2 Preliminary data of the facility’s Flow Diagram and illustrate the fuel meter used.
- 8.3 The ratio of heat energy derived from the cogeneration system that is used for the product manufacturing process to the electricity generated from the cogeneration system (Heat-to-Power Ratio).
(Power producers using solar, wind and hydro energy are not required to submit this document.)
- 8.4 The plan for electricity generation and consumption of the VSPP.
- 8.5 The amount of fuels used per year and the Average Lower Heating Value of the fuels used in the electricity generating system or in the cogeneration system, including both primary and secondary fuels.

Section 9: Applicant Signature

I hereby certify that, to the best of my knowledge, all the provided information about interconnection equipment is true and correct.

Signature of Applicant: _____ Date: _____

Send the completed application to the appropriate Distribution Utility:

Provincial Electricity Authority (PEA)/Metropolitan Electricity Authority (MEA)

Address: _____

<p>Note: Any amendments to the application form shall be made only with the approval of the Sub-Committee on the Coordination of the Power Utilities' Future Operation.</p>
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